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METHODS APPLICATION GROUP

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FIELD CREW INSTRUCTIONS FOR

DEPOSIT CARD SAMPLING

INTRODUCTION

Spray deposit sampling is a vital part of any pilot project. Following a few simple procedures will insure that quality data are obtained.

The keys to producing quality spray deposit data are:

- (1) communication
- (2) organization
- (3) supervision

Past failures in obtaining quality spray deposit data have been caused in part by improper sampling design and positioning of spray cards, and poor handling of cards causing dirt spots, creases, smudges, dampness leading to warping, etc.

Experience has demonstrated the need for an area to organize and to stage sampling equipment. This staging area should be managed by the field-crew foreman and should be used to conduct crew briefings and issue the necessary equipment to each crew. Before each trial, the crews should meet at the

staging area allowing plenty of time and gather their necessary sampling equipment, drive to their assigned sampling area and place all their samplers in the proper positions before spray. After the spraying is completed and the crews have regathered their samplers, they should return to the staging area to organize and check the used deposit cards and to prepare their samplers for the next trial.

CREW PROCEDURES

1. Attend all field crew briefings and resolve any questions.
2. Check all your necessary equipment to insure everything is accounted for and in good condition. Necessary equipment:

- Deposit cards including extras

- Deposit card holders

- Tote boxes for cards in holders

- Storage sacks or boxes

- Black felt-tip pens

- Compass

- Shovel or pulaski

- Stakes or poles if required to elevate cards

- Nails and flagging

- Scrub brush, bucket, detergent, paper towels and drying rack for holders

3. Visit assigned sampling areas a day prior to the first trial and flag all sampler locations with a nail through the middle of a small strip (3-4 inches)

of flagging pushed in flush to the ground surface so the sampler can lay flat on top of it. The sampler locations will be at the four cardinal directions (N,E,S,W) under the sample tree drip-lines (see fig. 1 and 2 of attached diagram). If, in addition, a ground line(s) and/or drift line(s) of samplers is used on the project, follow instructions from your field-crew foreman concerning numbering and placement of these lines and flag in the manner described above.

4. Cards should be numbered before the trial with black felt-tip pen at the bottom edge of the card--please write your numerals carefully (see figs. 3 and 4 of attached diagram for numbering system). Place the card in the card holder (which together is referred to as a sampler) into the tote box in order with the bottom of the card up so the cards will not slip out of the holder and the numbers can be easily read.

5. Samplers should be placed in position the morning of the trial, not the night before, at the predetermined and flagged cardinal locations. Be sure that the sampler is not shielded by grass, branches, shrubs, rocks, etc., as such objects may intercept part of the spray droplets.

6. Start picking up the samplers no sooner than one hour (weather permitting) after the spraying is completed on your spray block. This will allow sufficient time for all spray droplets to settle and to dry on the card. Be sure not to touch the face of the card as this might smear the stains. As the samplers are picked up, check to be sure that the cards are properly numbered according to their location and that none are missing. Place the samplers in the tote box with the bottom of the card up as before. Be sure cards are kept

dry, and clean, and out of direct sunlight (sunlight causes fading of the dye and discoloration of the card).

7. Return to the staging area and remove the cards from the holders and place them in numerical order into their storage sacks or boxes as provided.

8. Deliver these cards to your field-crew foreman at the staging area or as otherwise instructed.

9. Wash all card holders in detergent to remove stains, dry thoroughly with paper towels and allow to stand in drying rack (preferably overnight) before the next trial.

10. Stage your equipment for the next trial.

FIELD CREW INSTRUCTIONS FOR
DEPOSIT CARD SAMPLING
ILLUSTRATIONS

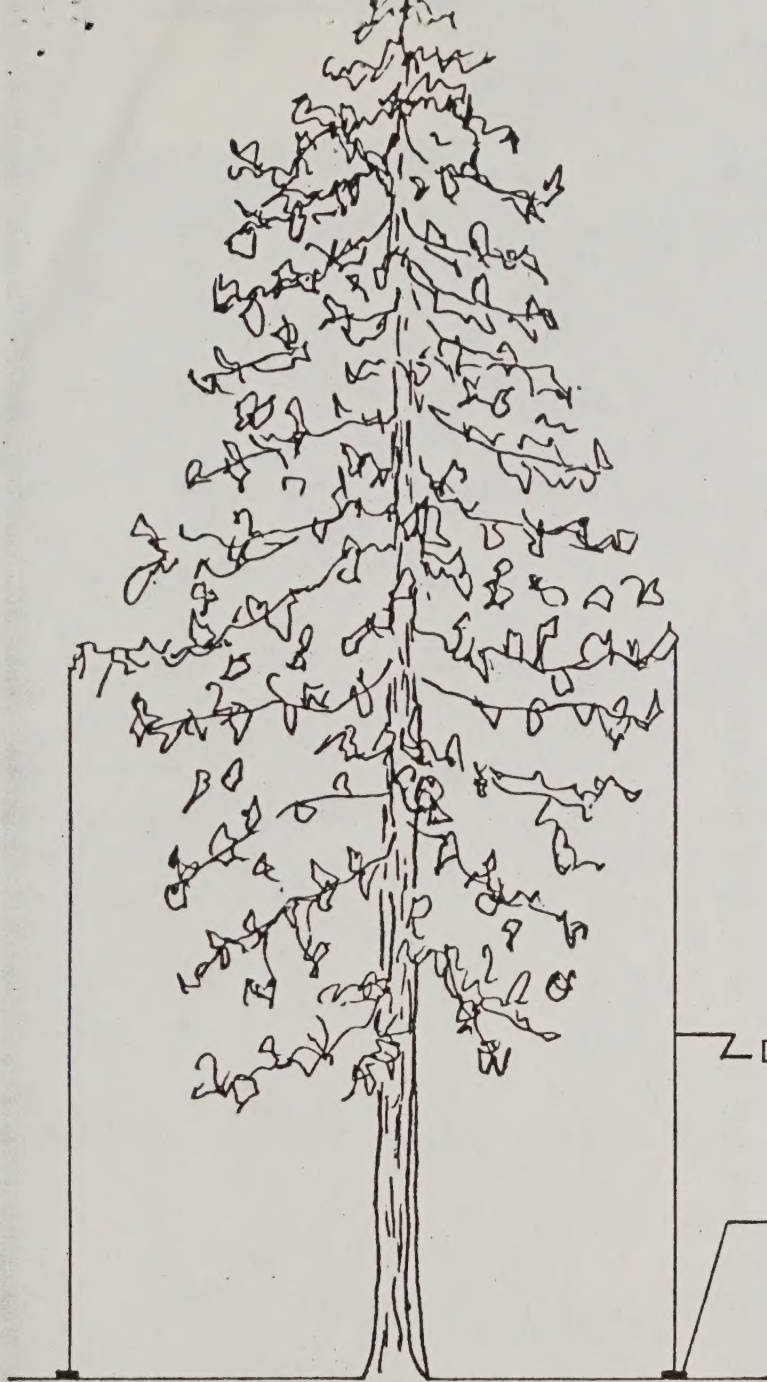


Figure 1: Tree side view

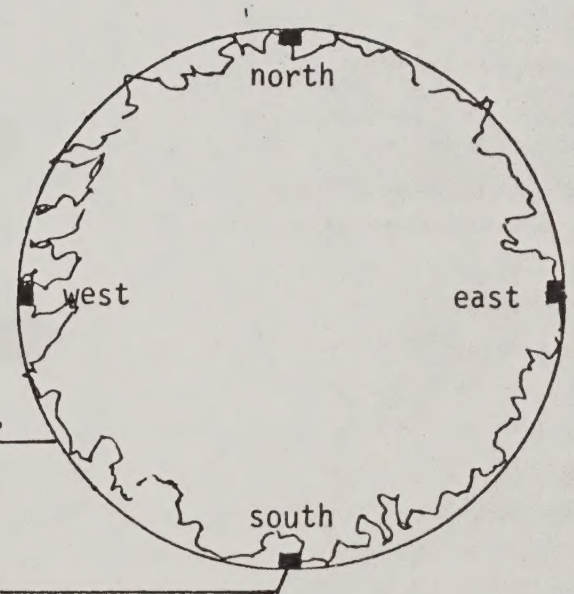


Figure 2: Tree top view
showing cardinal locations

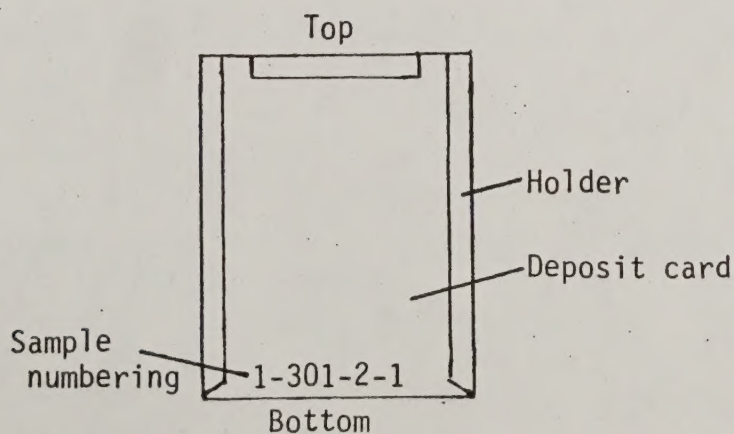


Figure 3: Sampler

Figure 4: Numbering code description

Spray Block		Tree	
↓		↓	
1	-	301	-
		↑	
		Tree Cluster	
			↑
			Position



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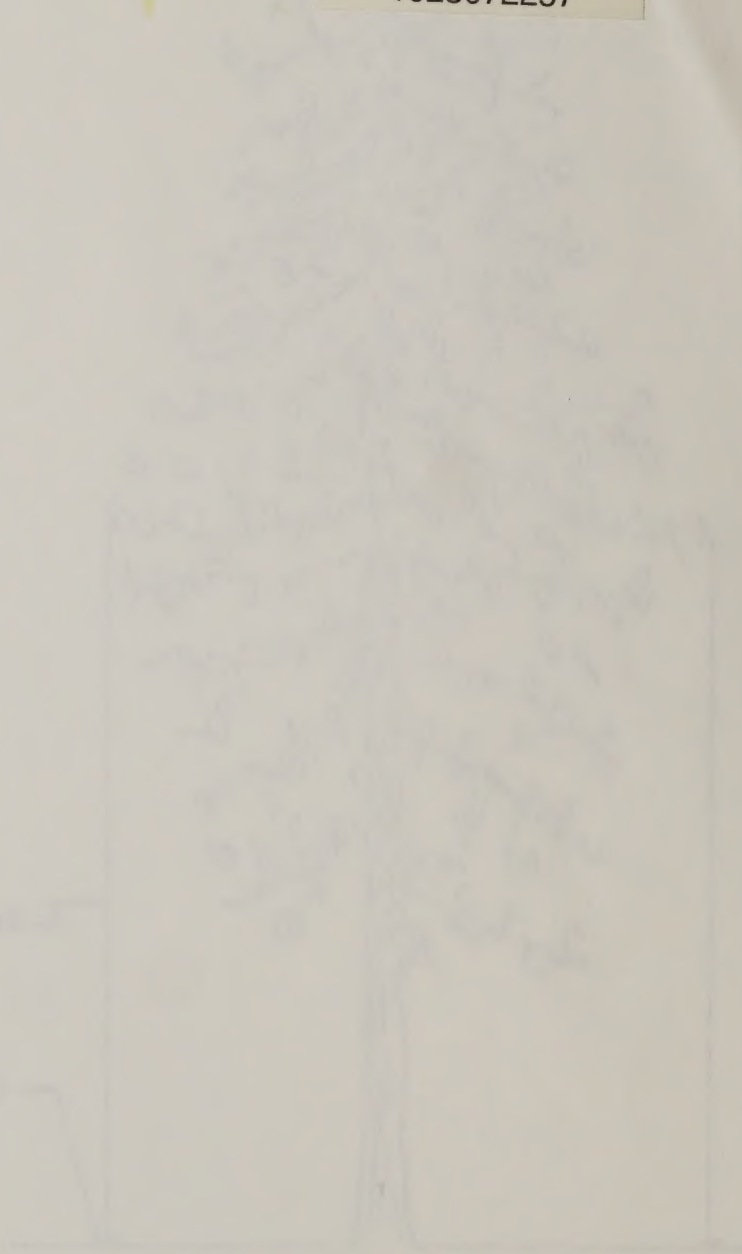


Figure 1. The tree structure.



Figure 2. The box structure.